1. (Currently Amended) A vortex ~~Vortex~~ generator in a flow duct to which a fluid medium is to be applied, ~~which~~ comprising:

a flow duct having a duct wall and defining a direction of main flow;

a vortex generator ~~(2) has~~ having surfaces extending in the direction of the main flow ~~(1)~~ and surfaces around which flow occurs freely, ~~of which~~ at least two surfaces ~~form~~ forming side surfaces ~~(3) and (4)~~ supported on the duct wall ~~(6)~~, which side surfaces ~~(3) and (4)~~ converge towards each other in the flow direction and meet at an acute angle α in a common edge ~~(7)~~ that forms ~~the~~ a downstream edge ~~(7)~~ of the vortex generator ~~(2)~~, ~~and of which~~ at least one surface ~~forms~~ forming a top surface ~~(5)~~ that ~~in flow direction~~ extends away from the duct wall in the flow direction ~~(6)~~ at an acute angle θ and forms trailing edges ~~(9) and (10)~~ together with the side surfaces ~~(3) and (4), characterized in that the vortex generator (2) has~~ ; and

at least one outlet opening ~~(12)~~ for a targeted introduction of a secondary flow ~~(13)~~ into the core flow of the forming wake vortex ~~(11)~~.

2. (Currently Amended) A vortex ~~Vortex~~ generator according to Claim 1, ~~characterized in that~~ wherein the at least one outlet opening ~~(12)~~ is located in the area of the side surfaces ~~(3) or (4)~~.

3. (Currently Amended) A vortex ~~Vortex~~ generator according to Claim 2, ~~characterized in that~~ wherein the at least one outlet opening ~~(12)~~ is located at half the chord length immediately below the trailing edge ~~(9) or (10)~~.

4. (Currently Amended) A vortex ~~Vortex~~ generator according to Claim 2, ~~characterized in that~~ wherein at least one side surface ~~(3) or (4) is equipped with~~ comprises a plurality of outlet openings ~~(12)~~ of a different geometrical configuration~~, for example with respect to orientation and/or throughput~~.

5. (Currently Amended) A vortex ~~Vortex~~ generator according to Claim 1, ~~characterized in that~~ wherein the at least one outlet opening ~~(12)~~ is located at the downstream edge ~~(7)~~ of the vortex generator ~~(2)~~.

6. (Currently Amended) A vortex ~~Vortex~~ generator according to Claim 5, ~~characterized in that~~ wherein the downstream edge ~~(7)~~ has a plurality of outlet openings ~~(12)~~.

7. (Currently Amended) A vortex ~~Vortex~~ generator according to Claim 6, ~~characterized in that~~ wherein the downstream edge ~~(7)~~ has a plurality of outlet openings with a different geometrical configuration.

8. (Currently Amended) A vortex ~~Vortex~~ generator according to Claim 1, ~~characterized in that~~ wherein the at least one outlet opening ~~(12) is constructed with~~ comprises a circular cross-section.

9. (Currently Amended) A vortex ~~Vortex~~ generator according to Claim 1, ~~characterized in that~~ wherein the at least one outlet opening ~~(12) is constructed in~~ comprises a slit shape.

10. (Currently Amended) A method ~~Method~~ for controlling the wake flow of a vortex generator in a flow duct to which a fluid medium is applied, which vortex generator has essentially three surfaces extending in the flow direction and around which surfaces flow occurs freely, of which surfaces at least two surfaces form side surfaces ~~(3; 4)~~ supported on the duct wall ~~(6)~~, which side surfaces converge towards each other in the flow direction and meet at an acute angle α in a common edge ~~(7)~~, and of which at least one surface forms a top surface ~~(5)~~ that in the flow direction extends away from the duct wall at an acute angle θ and forms trailing edges ~~(9;10)~~ together with the side surfaces ~~(3;4)~~, ~~whereby the~~ the method comprising:

flowing fluid ~~forms~~ to form a pair of countercurrent vortices ~~(11)~~ downstream

from the trailing edges ~~(9;10)~~, the vortex axes of said vortices being in the axis of the main flow ~~(1), characterized in that~~ ; and

introducing an axial impulse ~~is introduced~~ in the zone of the core flow of the forming wake vortices ~~(11)~~ at least approximately in the direction of the main flow ~~(1)~~.

11. (Currently Amended) A method ~~Method~~ according to Claim 10, ~~characterized in that~~ comprising:

introducing a secondary flow ~~(13) is introduced~~ into the core flow of the wake vortex ~~(11)~~ in a targeted manner.

12. (Currently Amended) A method ~~Method~~ according to Claim 11, ~~characterized in that~~ wherein introducing comprises introducing a secondary fluid ~~is introduced~~ into the vortex core flow via outlet openings ~~(12)~~ on the vortex generator ~~(2)~~.

13. (Currently Amended) A method ~~Method~~ according to Claim 12, ~~characterized in that~~ wherein introduding comprises variably adjustably introducing the throughput of the secondary medium ~~(13) is variably adjustable~~.

14. (Currently Amended) A method ~~Method~~ according to Claim 11, ~~characterized in that~~ wherein the secondary medium is a component to be mixed into the main flow ~~(1)~~.

15. (Currently Amended) A method ~~Method~~ according to Claim 11, ~~characterized in that~~ wherein the mass portion of the secondary flow ~~(13)~~ in relation to the main flow ~~(1)~~ is 0.1% to 5%~~, preferably 0.5% to 1,5%~~.

16. (New) A vortex generator according to Claim 4, wherein the different geometrical configuration comprises different orientation, different throughput, or both.

17. (New) A method in accordance with Claim 15, wherein the mass portion of the secondary flow in relation to the main flow is 0.5% to 1.5%.